

FIG. 1

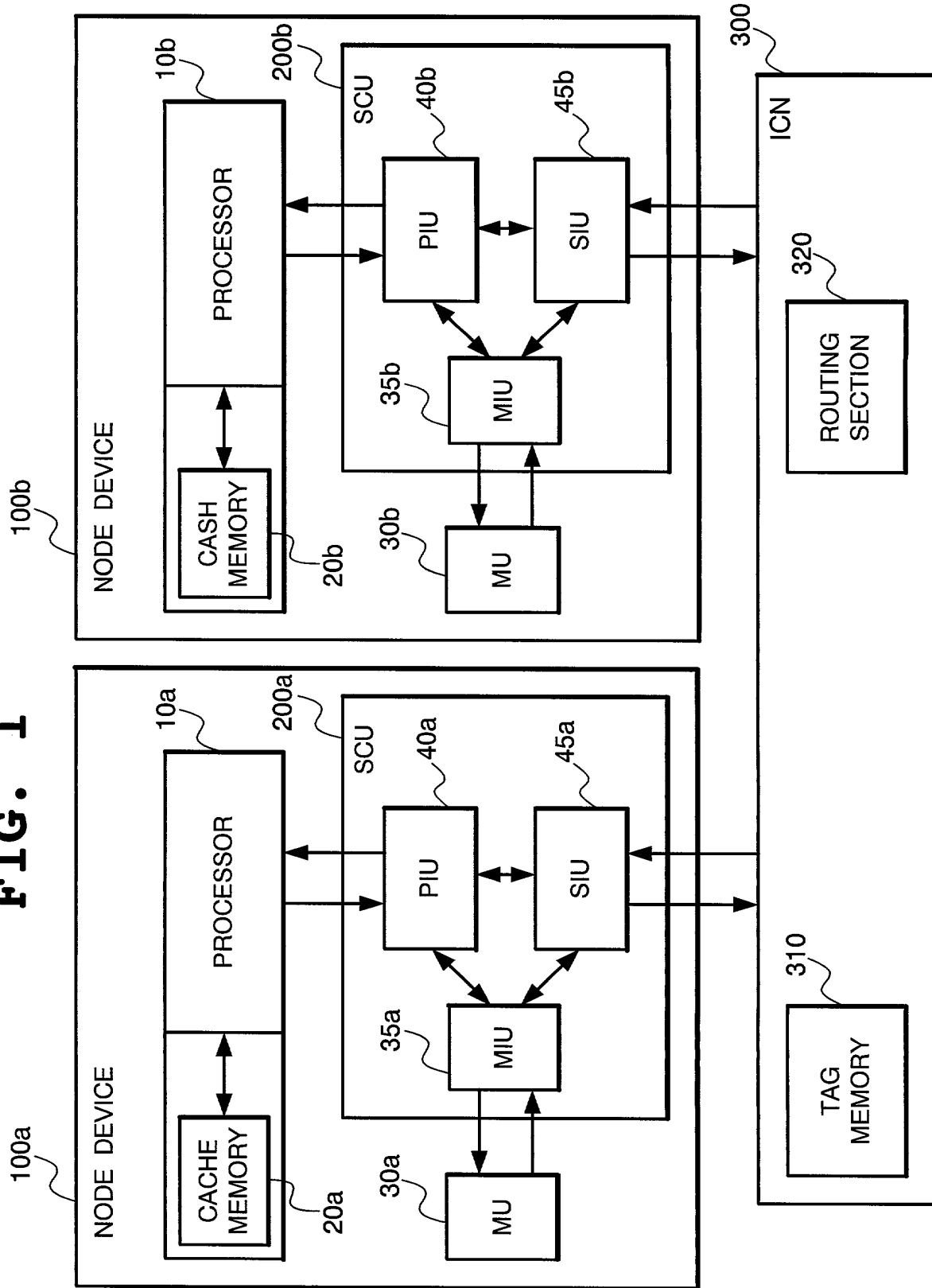


FIG. 2

TAG INFORMATION

BLOCK NUMBER	STATUS INFORMATION	NODE DEVICE NUMBER
a	U	
b	S	1, 2
⋮	⋮	⋮
n	P	2

FIG. 3

STATUS INFORMATION	CACHE STATUS
U	CACHE DATA IS NOT FOUND IN ANY OF THE NODE DEVICES
S	DATA IN THE CACHE IS IDENTICAL TO THE DATA IN THE MEMORY UNIT AND THE SAME CACHE DATA IS FOUND IN SEVERAL NODE DEVICES
P	CACHE DATA IS FOUND IN ONE NODE DEVICE ONLY

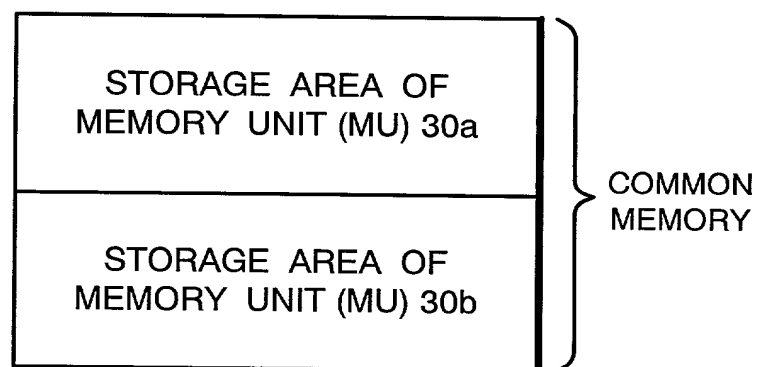
FIG. 4

FIG. 5

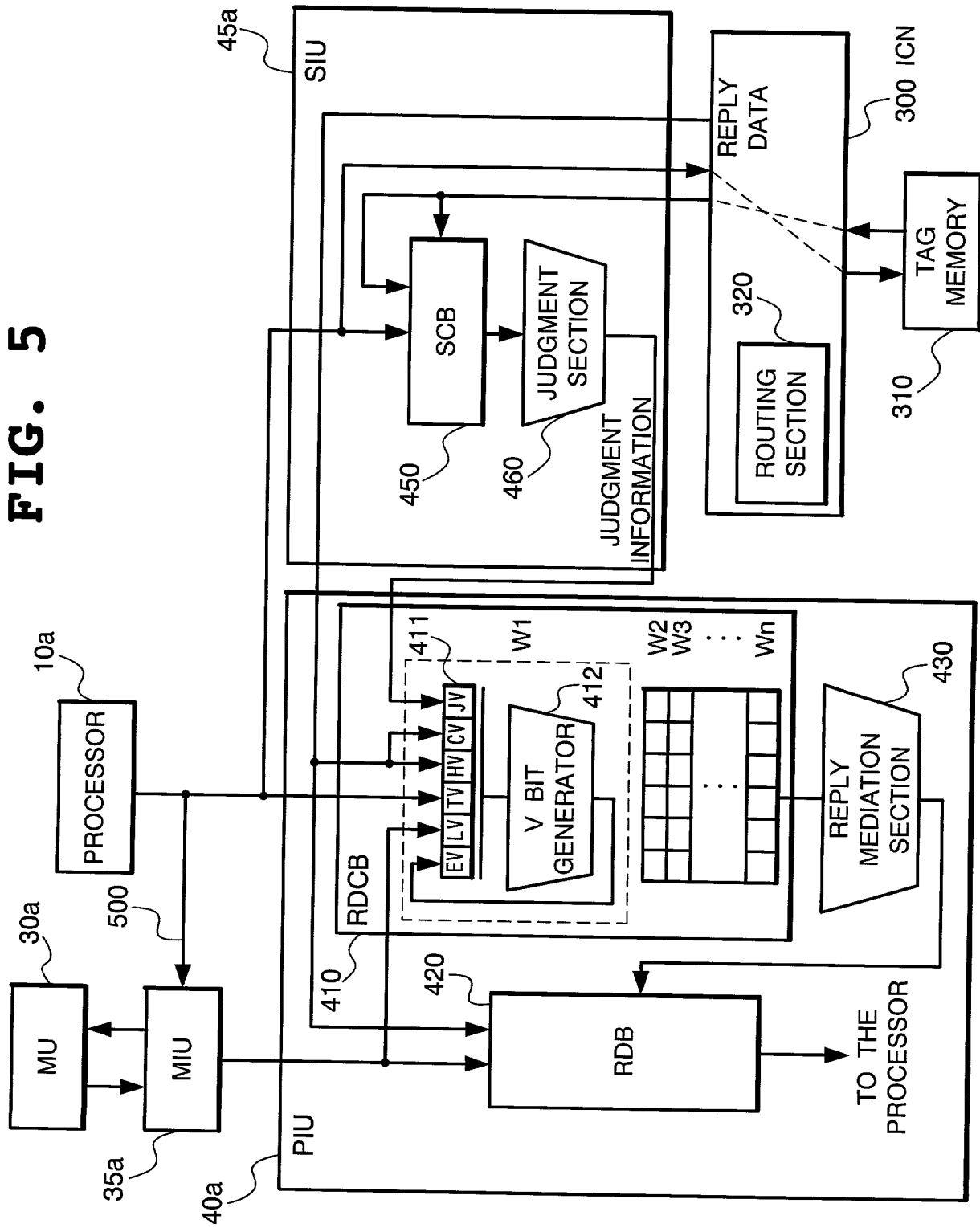


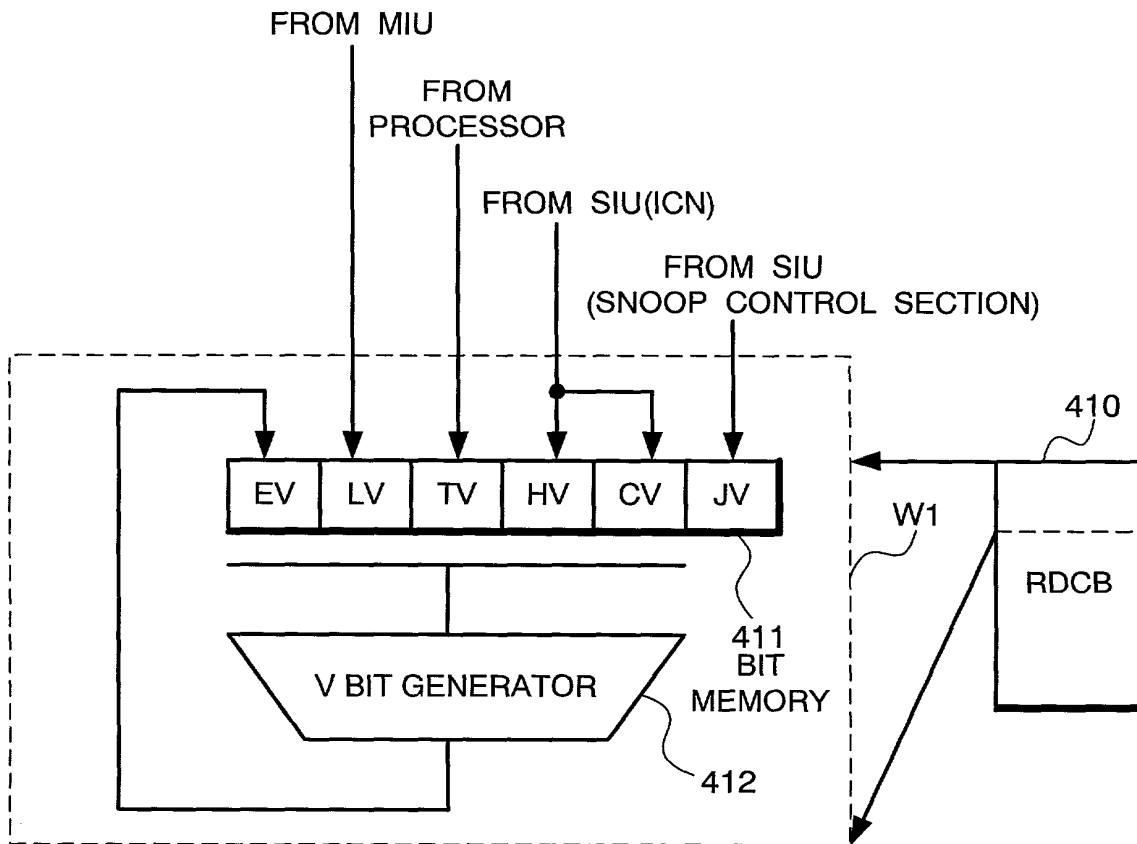
FIG. 6

FIG. 7

EV	REPRESENTATIVE BIT OF ENTRY SHOWING THAT THE CONDITIONS TO SEND THE REPLY DATA TO THE PROCESSOR ARE ESTABLISHED
LV	BIT SHOWING THAT THE REPLY DATA BY THE SPECULATIVE READ PATH HAS BEEN RETURNED FROM THE LOCAL MEMORY
TV	BIT SHOWING THAT A READ TYPE TRANSACTION HAS BEEN RECEIVED FROM THE PROCESSOR AND ISSUED TO THE SIU / MIU
HV	BIT SHOWING THAT THE REPLY DATA HAS BEEN RETURNED FROM THE MEMORY UNIT (MU) MOUNTED ON THE OTHER NODE
CV	BIT SHOWING THAT MODIFY DATA HELD IN THE CACHE OF THE REMOTE NODE HAS BEEN RETURNED
JV	BIT SHOWING THE SNOOP RESULT

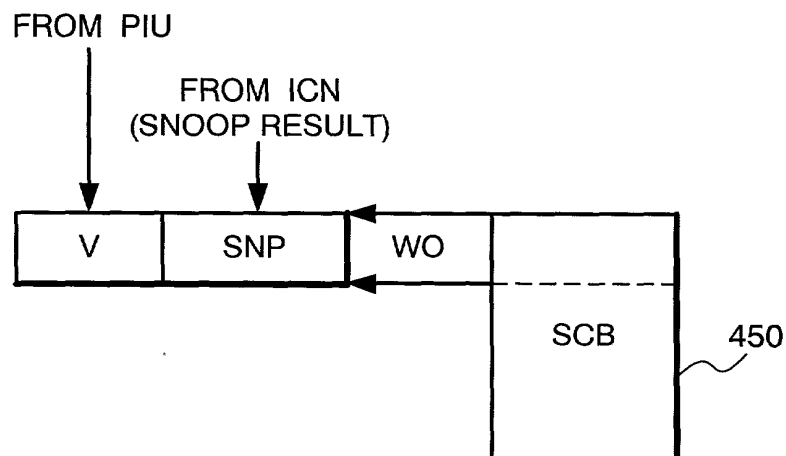
FIG. 8

FIG. 9

V	BIT SHOWING THAT THE PROCESSOR HAS ISSUED A READ TYPE TRANSACTION AND IS WAITING FOR SNOOP PROCESSING
SNP	INFORMATION SHOWING THE SNOOP RESULT OBTAINED FROM THE INTERNAL CONNECTION NETWORK

FIG. 10

CASE	LV	TV	HV	CV	JV	PROCESSING CONTENTS
(1)	1	1	0	0	MODIFY NOT FOUND	LOCAL MEMORY DATA IS SENT TO THE PROCESSOR
(2)	1	1	0	1	MODIFY FOUND	CACHE DATA IS SENT TO THE PROCESSOR AND THE LOCAL MEMORY DATA (SPECULATIVE READOUT DATA) IS ABOLISHED
(3)	0	1	1	0	MODIFY NOT FOUND	MEMORY DATA IN THE REMOTE NODE IS SENT TO THE PROCESSOR
(4)	0	1	1	1	MODIFY FOUND	CACHE DATA IS SENT TO THE PROCESSOR AND THE MEMORY DATA IN THE REMOTE NODE IS ABOLISHED

FIG. 11

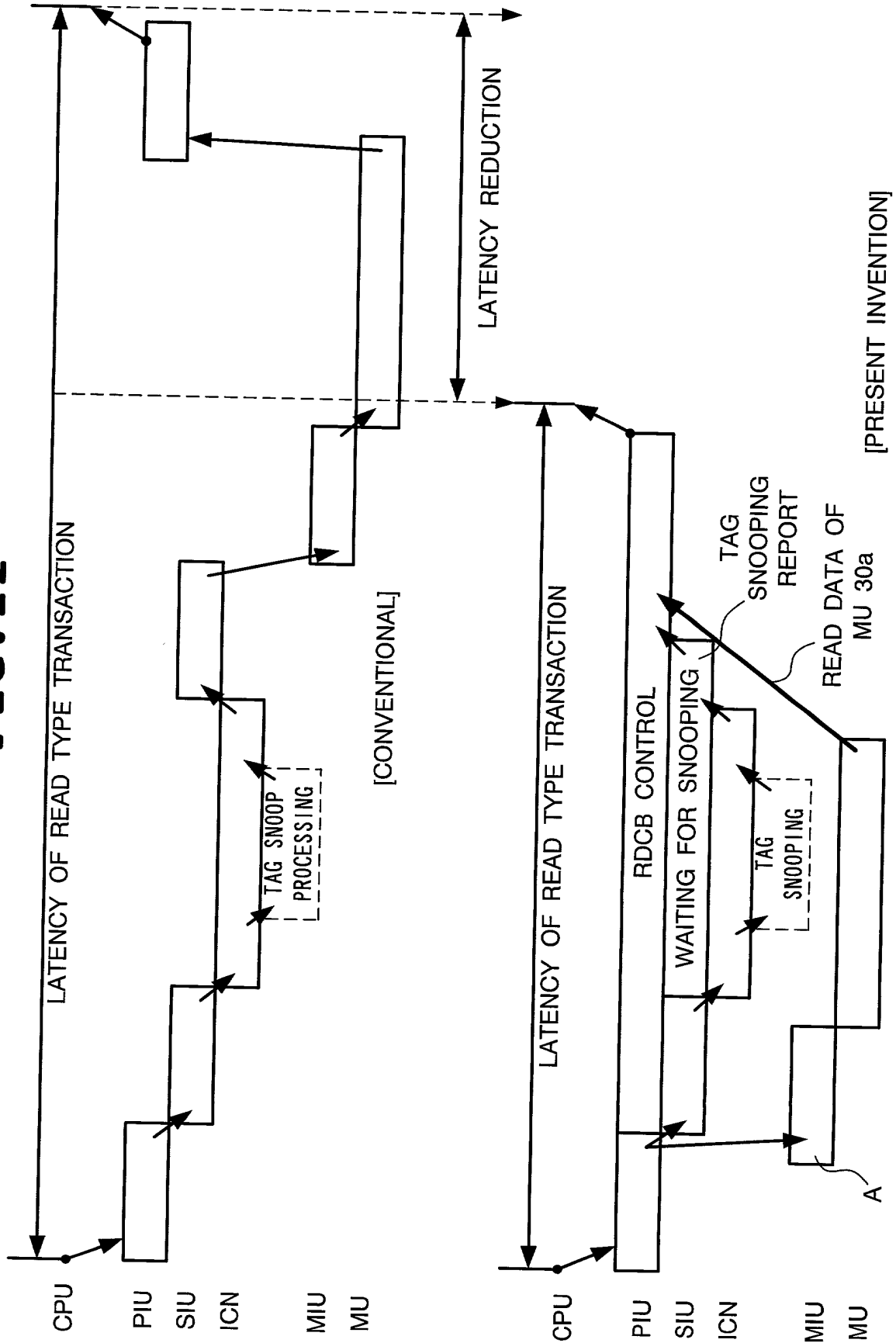


FIG. 12

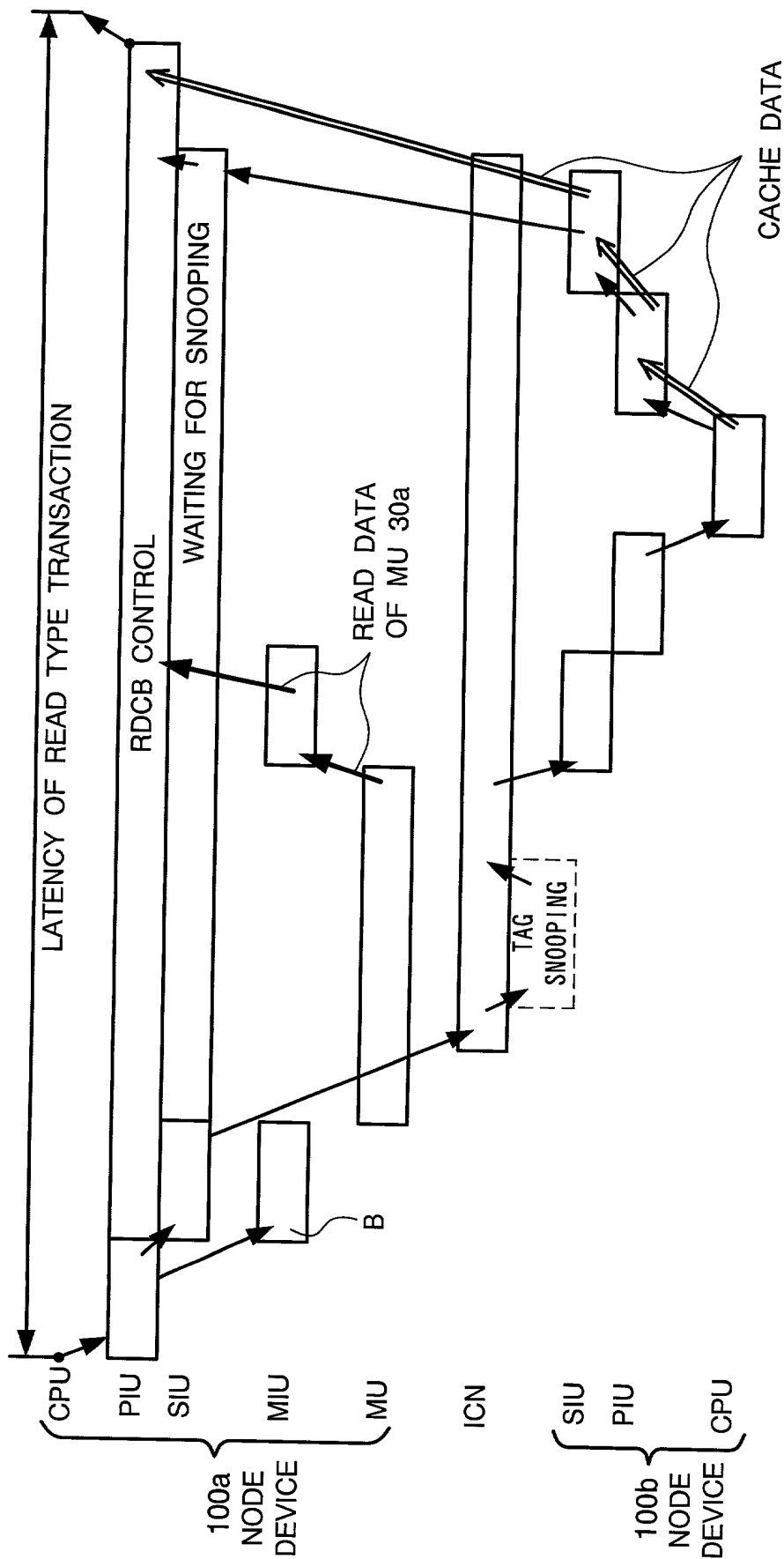


FIG. 13

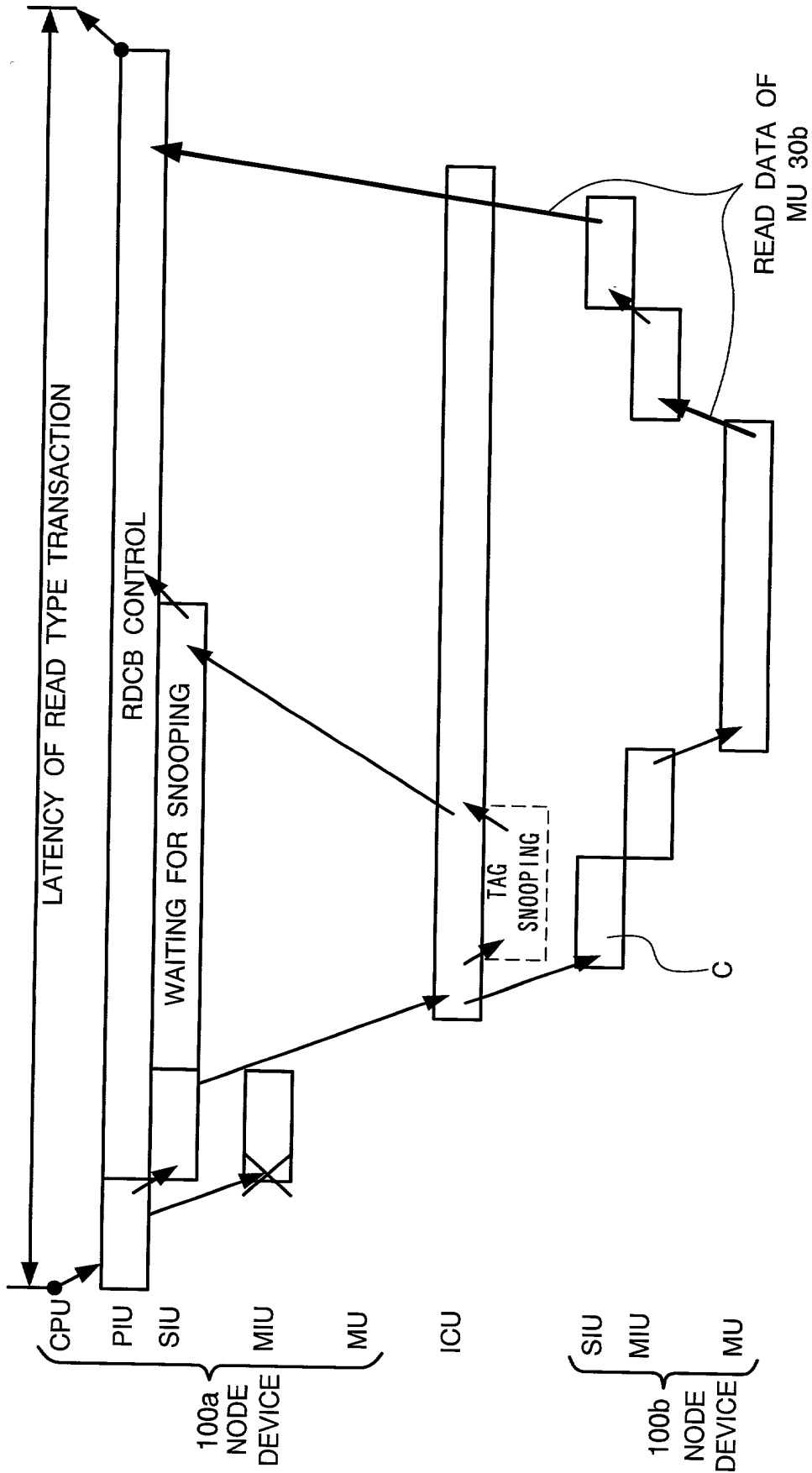


FIG. 14

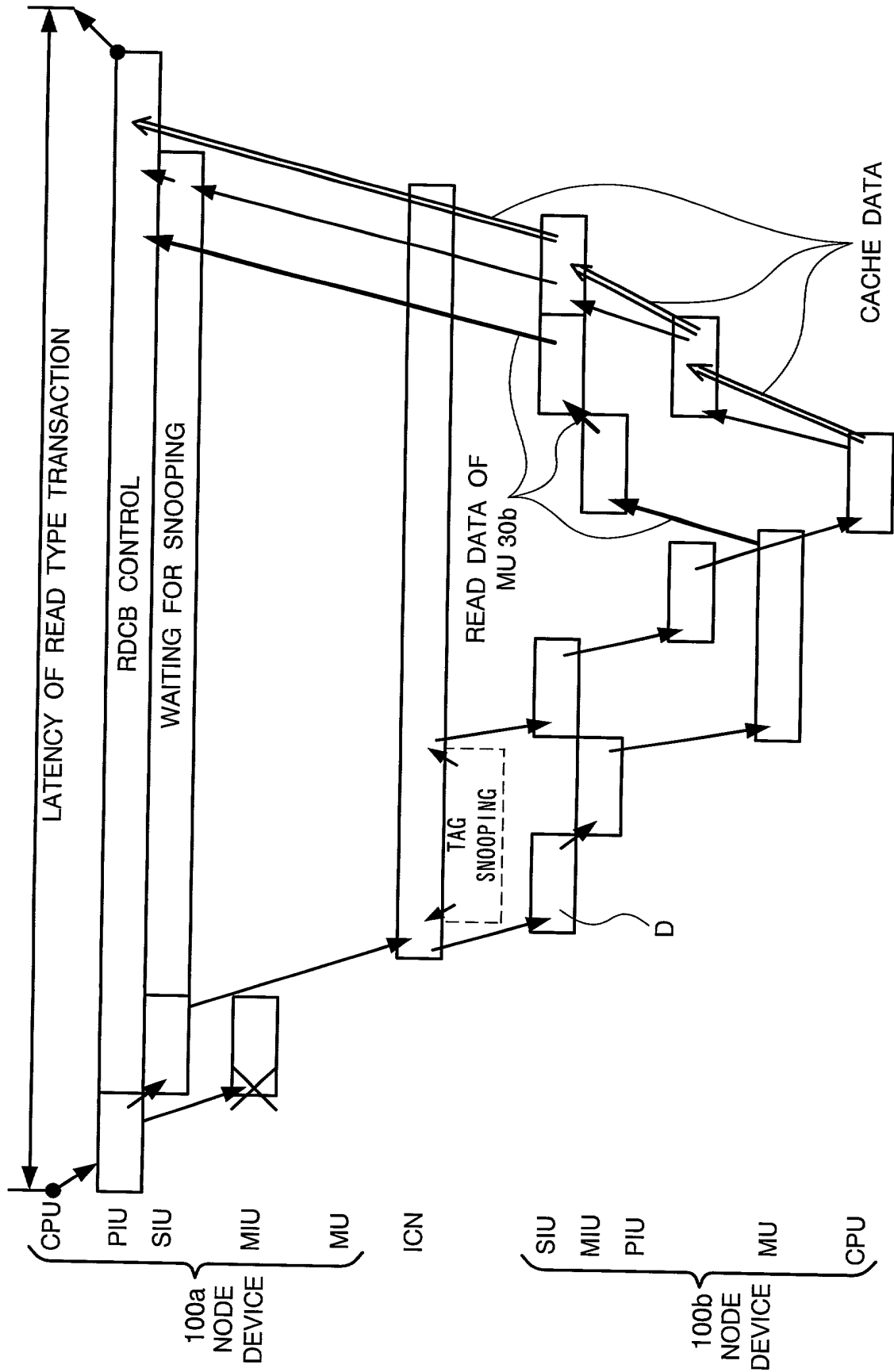


FIG. 15

BLOCK NUMBER	STATUS INFORMATION	NODE DEVICE NUMBER
a	U	_____
⋮	⋮	⋮

FIG. 16

BLOCK NUMBER	STATUS INFORMATION	NODE DEVICE NUMBER
a	P	(2)
⋮	⋮	⋮

FIG. 17

BLOCK NUMBER	STATUS INFORMATION	NODE DEVICE NUMBER
b	U	_____
⋮	⋮	⋮

FIG. 18

BLOCK NUMBER	STATUS INFORMATION	NODE DEVICE NUMBER
b	P	(2)
⋮	⋮	⋮

FIG. 19

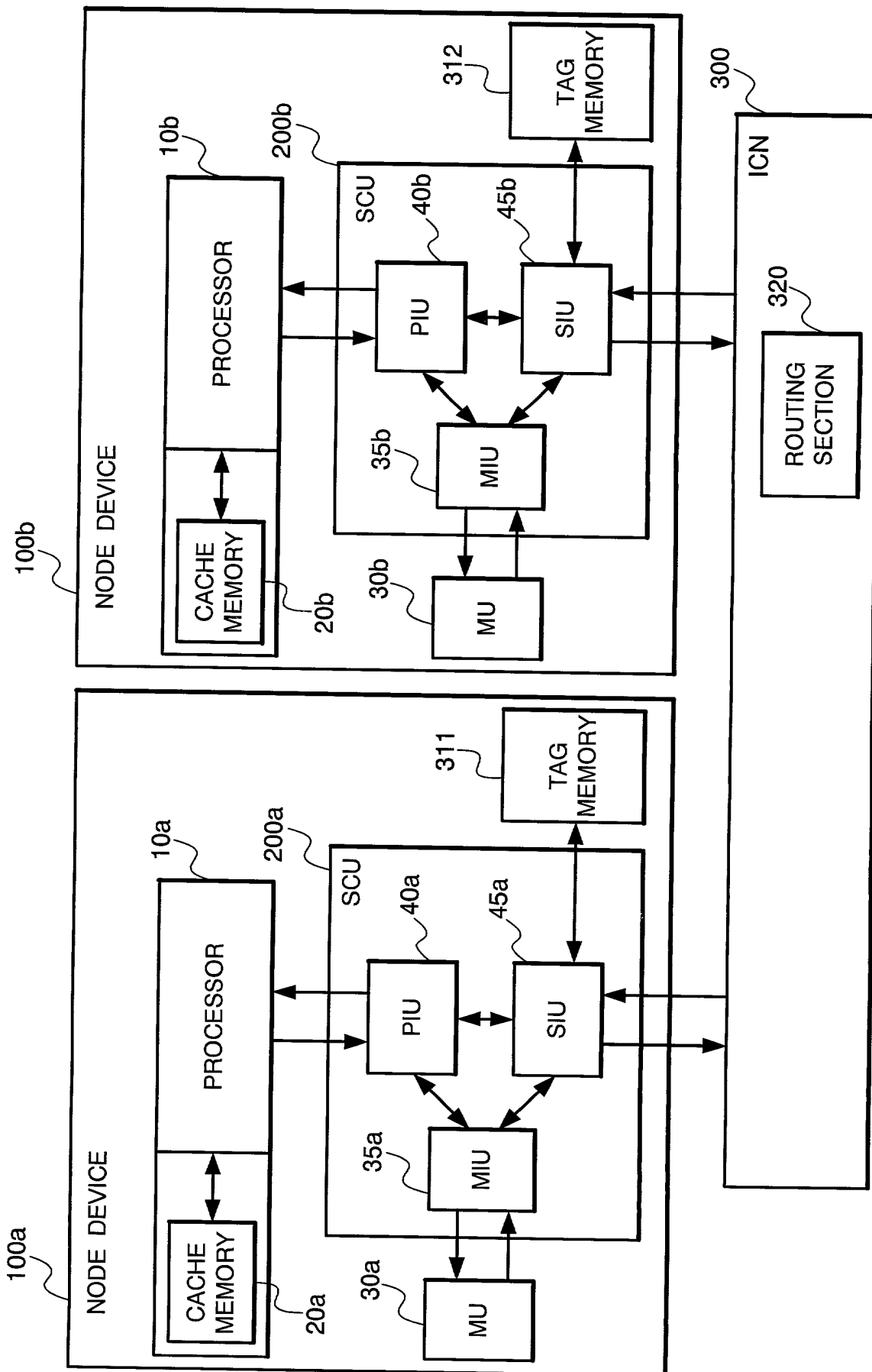


FIG. 20

(a)

V	SNP1	SNP2
1		

(b)

V	SNP1	SNP2
1	SNOOP RESULT	SNOOP RESULT

FIG. 21 (PRIOR ART)

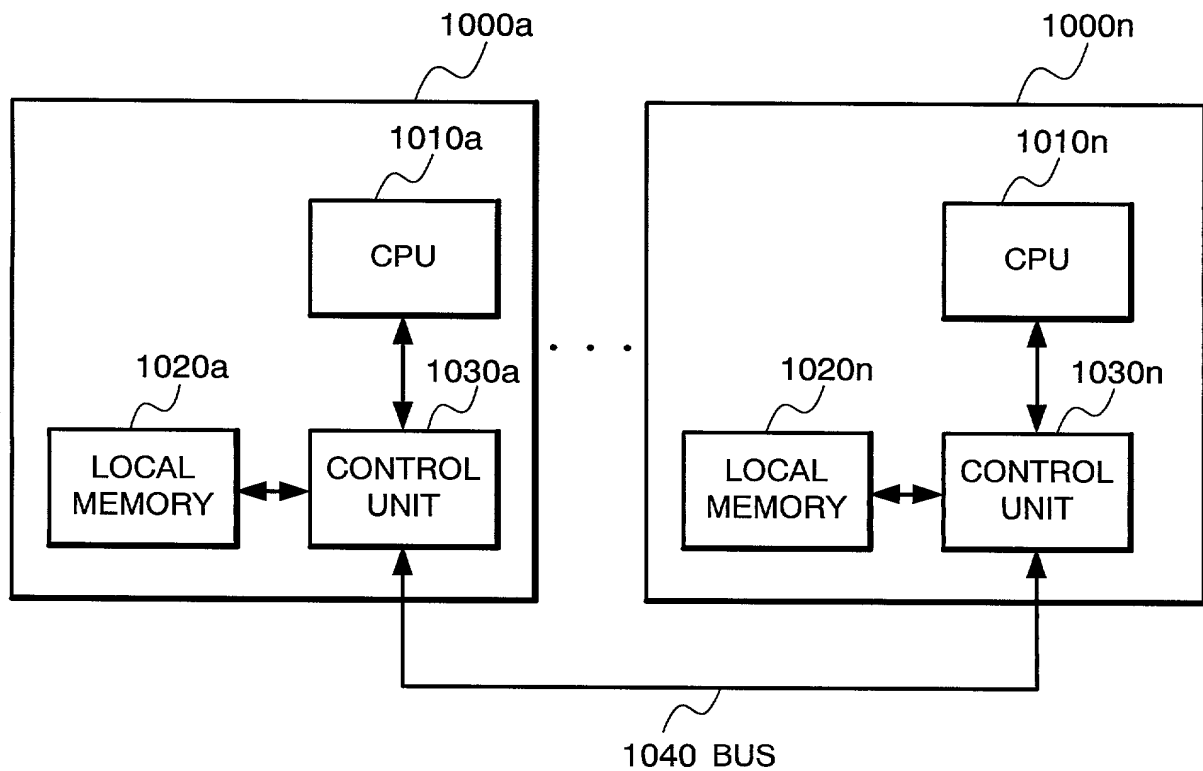


FIG. 22 (PRIOR ART)

